CLAIMS

What is claimed is:

- 1. An isolated polypeptide comprising residues 41-150 of SEQ ID NO:2 or residues 32-141 of SEQ ID NO:4.
- 2. The isolated polypeptide of claim 1 which is not more than 1800 amino acid residues in length.
- 3. The isolated polypeptide of claim 2, wherein said residues 41-150 of SEQ ID NO:2 or residues 32-141 of SEQ ID NO:4 are operably linked to a second polypeptide selected from the group consisting of maltose binding protein, an immunoglobulin constant region, a polyhistidine tag, a peptide as shown in SEQ ID NO:7, and a peptide linker consisting of up to 25 amino acid residues.
- 4. The isolated polypeptide of claim 1, comprising residues 41-150 of SEQ ID NO:2.
- 5. The isolated polypeptide of claim 4, comprising a sequence of amino acid residues selected from the group consisting of:

residues 41-412 of SEQ ID NO:2; and residues 41-452 of SEQ ID NO:2. residues 35-150 of SEQ ID NO:2; residues 35-412 of SEQ ID NO:2; and residues 35-452 of SEQ ID NO:2.

- 6. The isolated polypeptide of claim 5 further comprising an immunoglobulin constant region domain and hinge region.
- 7. A dimerized polypeptide fusion comprising two polypeptide chains, each of said chains comprising residues 41 to 150 of SEQ ID NO:2 joined to an IgG constant region domain and hinge region.
- 8. The dimerized polypeptide fusion of claim 7, wherein each of said chains comprises residues 41 to 412 of SEQ ID NO:2 joined to an IgG constant region domain and hinge region.

- 9. An isolated polynucleotide encoding residues 41-150 of SEQ ID NO:2 or residues 32-141 of SEQ ID NO:4.
- 10. An expression vector comprising the following operably linked elements:
 - (a) a transcription promoter;
- (b) a DNA segment encoding a polypeptide comprising a sequence of amino acid residues selected from the group consisting of:

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residues 41-150 of SEQ ID NO:2; residues 41-412 of SEQ ID NO:2; residues 41-452 of SEQ ID NO:2; residues 35-150 of SEQ ID NO:2; residues 35-412 of SEQ ID NO:2; residues 35-452 of SEQ ID NO:2; residues 32-141 of SEQ ID NO:4; residues 32-244 of SEQ ID NO:4; residues 26-141 of SEQ ID NO:4; and residues 26-244 of SEQ ID NO:4; and (c) a transcription terminator.
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- 11. The expression vector of claim 10 further comprising a secretory signal sequence operably linked to the DNA segment.
- 12. The expression vector of claim 11, wherein the secretory signal sequence encodes residues 1-34 of SEQ ID NO:2 or residues 1-25 of SEQ ID NO:4.
- 13. The expression vector of claim 10 wherein said polypeptide further comprises a maltose binding protein, an immunoglobulin constant region, a polyhistidine tag, a peptide as shown in SEQ ID NO:7, or a peptide linker consisting of up to 25 amino acid residues.
- 14. The expression vector of claim 13 wherein said polypeptide further comprises an immunoglobulin constant region domain and hinge region.

- 15. A cultured cell into which has been introduced the expression vector of claim 10, wherein said cell expresses said DNA segment.
- 16. A method of making a protein comprising:
 culturing the cell of claim 15 under conditions whereby the DNA segment is
 expressed and the polypeptide is produced; and
 recovering the polypeptide.
- 17. The method of claim 16 wherein the expression vector comprises a secretory signal sequence operably linked to the DNA segment, and wherein the polypeptide is secreted by the cell and recovered from a medium in which the cell is cultured.
 - 18. A polypeptide produced by the method of claim 16.
 - 19. An antibody that specifically binds to the polypeptide of claim 1.